BP 601 T

2025

B.Pharm. 6th Semester Final Examination Chowdhury Central Library
Girijananda Chewdhury University
MEDICINAL CHEMISTRY — III (THEORY)

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Full Marks - 75

Time - Three hours

The figures in the margin indicate full marks for the questions. Answer the following (Multiple Choice Questions): 1×20 1. (CO4) The term chemotherapy is used for (i) Treatment of CVS disease (a) (b) Treatment of CNS disease (c) Treatment of disease caused by infective organism Treatment of respiratory disease (d) (ii) Who is regarded as father of chemotherapy? (CO2) Paul Ehrlich (b) Alexander Fleming (a) Gerhard Domagk (d) None of the above (iii) Which antibiotic is bacterial cell wall synthesis inhibitor? (CO2) Macrolide antibiotics Cephalosporins (b) (a) All of the above Amino glycoside antibiotic (d) (iv) Which antibiotic is protein synthesis inhibitor? (CO3) Cephalosporin (a) Penicillin (b) Erythromycin (d) Rifampin (c) Which of the following antibiotics is a macrolide? (CO2) Chloramphenicol (a) (b) Doxycycline (c) Erythromycin (d) Streptomycin

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(V1)	Whi	ch of the following antibiotics	is re	(CO3)			
	(a)	Chloramphenicol	(b)	Doxycycline			
	(c)	Erythromycin	(d)	Streptomycin			
(vii)	Pen	Penicillin was discovered by scientist (C					
	(a)	Paul Ehrlich	(b)	Alexander Fleming			
	(c)	Gerhard Domagk	(d)	None of the above			
(viii) Which is not a penicillinase resistant penicillin? (CC							
	(a)	Ampicillin	(b)	Amoxicillin			
	(c)	Penicillin G	(d)	Penicillin V			
(ix)	Teti	cacycline has how many rings?		CELUS TUNES 11 (CO3)			
	(a)	1	(b)	2 Month of and Alars			
	(c)	3	(d)	Penicillin V 2 4 Ging Chowdrus Central Library (CO3) imidine derivatives is (CO4)			
(x)	The antimalarial drug belonging to pyrimidine derivatives is (Co						
	(a)	Mefloquine	(b)	Pyrimethamine			
	(c)	Quinidine	(d)	Chloroquine			
(xi)	(From Hit to Lead) is known as:						
	(a)	Drug development	(b)	Drug discovery			
	(c)	Both of the above	(d)	None of the above			
(xii)	(xii) Process of bringing new pharmaceutical drug to the market or compound has been identified through the process of drug disc Lead to NDA is known as						
	(a)	Drug development	(b)	Drug discovery			
	(c)	Both of the above	(d)	None of the above			
(xiii) Cinchonism side effect is seen with which of the following antimalar drugs							
	(a)	Quinine	(b)	Chloroquine			

	(c)	Primaquine	(d)	Mefloquine				
(xiv)	(xiv) For Tuberculosis, the drugs used to combat it are (CC							
	(a)	Streptomycin, Pyrazinamide	(b)	Isoniazid, Rifampicin				
	(c)	Both (a) and (b)	(d)	None of these				
(xv)	xv) Which of the following method is used for virtual screening?							
	(a)	ADMET analysis	(b)	QSAR modelling				
	(c)	Pharmacophore modeling	(d)	All of the above				
(xvi)	(xvi) Sulpha methoxazole and trimethoprim combination is known as (CO2							
	(a)	Cotrimazole	(b)	Cotrimoxazole				
	(c)	Cotrimethoxazole	(d)	None of the above				
(xvii	(xvii)Which of the sulphonamide is used topically?							
	(a)	Sulphadoxime	(b)	Dapsone				
	(c)	Silver sulphadiazine	(d)	Sulphamethoxazole				
(xvii	ii) Wl	hich of the following is a benzir	nidaz	ole derivative?	(d) (CO2)			
	(a)	Praziquantel	(b)	Mebendazole And Sandy Gh	1-1,			
	(c)	Suramin	(d)	Pyrantel Chond Chord AZa				
(xix)	(xviii) Which of the following is a benzimidazole derivative? (a) Praziquantel (b) Mebendazole (c) Suramin (d) Pyrantel (d) Pyrantel (d) Pyrantel (d) Acyclovir (e) Oseltamivir (d) Aziodothymidine							
	(a)	Amantadine	(b)	Acyclovir	(CO2)			
	(c)	Oseltamivir	(d)	Aziodothymidine				
	(xx) Which of the following approach is considered under the 'Ligand based designing'?							
	(a)	Molecular docking	(b)	Pharmacophore modelling				
	(c)	QSAR Modelling	(d)	(b) and (c) both				
Shor	rt ans	swer. (Any seven)			7×5			
(a)	Explain the synthesis of: Chloramphenicol and Ciprofloxacin.							
(b)) Discuss the SAR of quinolones.							
(c)	(c) Classify the antifungal drugs with example.							

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	(d)	(d) Describe the synthesis of : Metronidazole and Dapsone.					
	(e)	Classify antifungal drugs with example.	(CO1)				
	(f)	Describe in brief on the historical development of sulphonamides.	(CO4)				
	(g)	Explain the concept and advantages of prodrug.					
	(h)	Discuss the stereochemistry of penicillin.					
	(i)	Classify antiviral agents and cite one example from each class structure. g answer. (Answer any two) Bina Chowdhury Central University Gny-17 Bina Chowdhury Central University Gny-17 Bina Chowdhury Central University Gny-17 Bina Chowdhury Cantral Chowdhury Cantral Chowdhury Chowdh	s with (CO1)				
3.	Lon	g answer. (Answer any two) Bina Chowdhury Centrumy University Bina Chowdhury Centrumy Ghy-17 Bina Chowdhury Centrumy Ghy-17 Bina Chowdhury Centrum University Bina Chowdhury Centrum Unive	2×10				
	(a)	Discuss the SAR and mechanism of action of beta lactam antibiotics.	2, CO4)				
	(b)	Describe in brief about pharmacophore modeling, Docking	g and				

Combinatorial Chemistry. (CO1)

(c) Classify quinolines with example Discuss the SAR of 8-amino quinolines

(c) Classify quinolines with example. Discuss the SAR of 8-amino quinolines. (CO3, CO4)

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